**Breadth First Search**

#include<stdio.h>

int adj[10][10]={0},visited[10]={0},n;

void bfs(int node)

{

int q[20],f=-1,r=-1,i,nd;

visited[node]=1;

q[++r]=node;

while(f!=r)

{

nd=q[++f];

printf("\t%d",nd);

for(i=0;i<n;i++)

{

if(adj[nd][i]==1 && visited[i]==0)

{

visited[i]=1;

q[++r]=i;

}

}

}

}

int main()

{

int e,i,v1,v2,node;

printf("\nEnter nos of nodes=");

scanf("%d",&n);

printf("\nEnter nos of edges=");

scanf("%d",&e);

printf("\nEnter edge details\n");

for(i=0;i<e;i++)

{

printf("\nEnter edge=");

scanf("%d%d",&v1,&v2);

adj[v1][v2]=adj[v2][v1]=1;

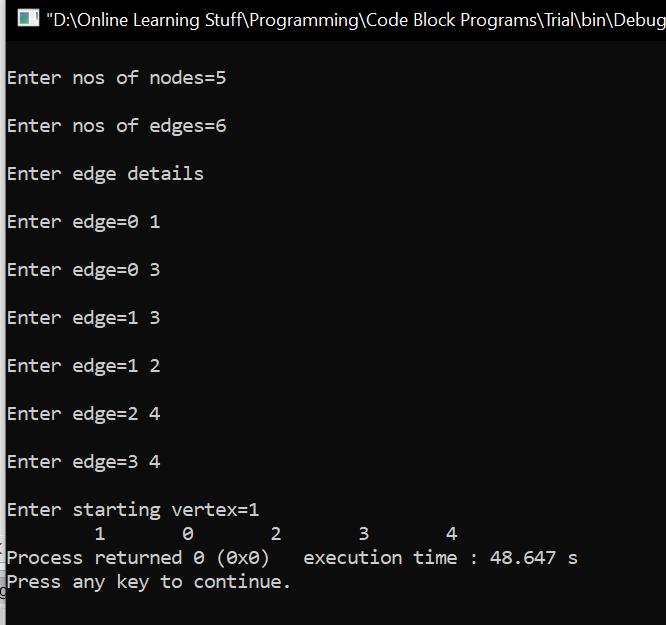
}

printf("\nEnter starting vertex=");

scanf("%d",&node);

bfs(node);

return 0;

**Output **